(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



13 DEC 2004

(43) International Publication Date 24 December 2003 (24.12.2003)

PCT

(10) International Publication Number WO 03/106171 A1

(51) International Patent Classification⁷: 27/32, C08G 69/08, 69/16, 69/48

B32B 27/34,

- (21) International Application Number: PCT/NL03/00379
- (22) International Filing Date: 21 May 2003 (21.05.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 1020830

12 June 2002 (12.06.2002) NI.

- (71) Applicant (for all designated States except US): DSM IP ASSETS B.V. [NL/NL]; Het Overloon 1, NL-6411 TE Heerlen (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): DE KROON, Jan [NL/NL]; In de Neerakker 1A, NL-6093 JH Heythuysen (NL). BRINK, Ted [NL/NL]; Charles Voscour 4, NL-6211 XR Maastricht (NL).

- (74) Agent: KRIJGSMAN, Willem; DSM Patents & Trademarks, P.O. Box 9, NL-6160 MA Geleen (NL).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR PRODUCING A MULTILAYER FLAT FILM CONTAINING AN INTRINSICALLY GEL-FREE, RANDOMLY BRANCHED POLYAMIDE

(57) Abstract: Process for producing a multilayer flat film containing a polyamide layer and a layer of another polymer wherein the polyamide layer is essentially formed from an intrinsically gel-free, randomly branched polyamides at least composed of units derived from: a. AB monomers, which are understood to be a monomer possessing both a carboxylic acid group (A) and an amine group (B), b. at least one compound I, being a carboxylic acid (A_v) , with functionality $v \ge 2$ or an amine (B_w) with functionality $w \ge 2$, c. at least one compound II, being a carboxylic acid (A_v) with functionality $v \ge 3$ or an amine (B_w) with functionality $v \ge 3$, with compound II being a carboxylic acid if compound I is an amine is or with compound II being an amine if compound I is a carboxylic acid, in specific quantities. The other polymer preferably is polyethylene and more preferably a non-linear polyethylene. Preferably, the polyamide layer and the layer of the other polymer are adjacent to each other.

3/106171